

1 **Docket: STEPHEN-1/CIP**

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3 **HIGH GAIN WIDE RANGE ACCOMMODATING INTRAOCULAR**
4 **LENS FOR IMPLANT INTO THE CAPSULAR BAG**

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6 **ABSTRACT OF THE DISCLOSURE**
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8 A high gain lens system for implant into the capsular bag after removal of the
9 natural crystalline lens. A preferred embodiment of the invention comprises a
10 combination of a positive or convex lens and a negative or concave lens. These two
11 lenses are spaced from one another and their relative spacing and respective focal
12 lengths determine their combined focal length. When the lens system is inserted into
13 the capsular bag, two opposed haptic flanges on each side, extend toward the inner
14 radial edge of the bag adjacent the ciliary muscles. When the muscles contract, the
15 bag is stretched thereby compressing the haptic flanges together or at least toward one
16 another. This action cause the two lenses to separate further from each other and the
17 increased spacing between the positive and negative lenses shortens the focal length
18 to permit focusing of objects at near distances. On the other hand, when the muscles
19 relax, the bag relaxes also, the haptic flanges separate and the lenses come closer
20 together. The reduced spacing between the positive and negative lenses, increases
21 the focal length to permit focusing of objects at far distances.
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